

02-04-00

PATENT

Docket No. PD-990111

CUSTOMER NO.: 020991

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
APPLICATION TRANSMITTAL LETTER FOR
NONPROVISIONAL PATENT APPLICATION
Under 37 C.F.R. 1.53(b)

A
 C530 U.S. PTO
 09/496889
 02/02/00

Certification under 37 CFR 1.10 (if applicable)

EM064975549US
 EXPRESS MAIL mailing number

February 2, 2000
 Date of Deposit

I hereby certify that this application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Laura P. Aceves
 (Type or printed name of person mailing application)

Laura P. Aceves
 (Signature of person mailing application)

Assistant Commissioner for Patents
 Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the patent application, including 4 sheet(s) of formal drawings, of inventor(s):
Louis Raymond Falce and John Robert Beattie

for: **ION THRUSTER HAVING A HOLLOW CATHODE ASSEMBLY WITH AN ENCAPSULATED HEATER, AND ITS FABRICATION**

The filing fee for this application is calculated below:

	CLAIMS AS FILED				
	NUMBER FILED	NUMBER EXTRA	RATE		
Basic Fee					\$690.00
Total Claims	17	-20=	0	x	\$ 18.00
Independent Claims	2	- 3 =	0	x	\$ 78.00
Multiple Dependent Claims				+	\$260.00
TOTAL FILING FEE :					\$690.00

Please charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California, in the amount of **\$690.00**. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to that account.

The Commissioner is further hereby authorized to charge to said above Deposit Account No. 50-0383, pursuant to 37 CFR 1.25(b), any fees whatsoever which may properly become due or payable, as set forth in 37 CFR 1.16 to 1.17 inclusive, for the entire pendency of this application without specific additional authorization.

Please associate this application with the Hughes Electronics Corporation Customer Number 020991.
 This form is submitted in triplicate.

HUGHES ELECTRONICS CORPORATION

Vijayalakshmi D. Duraiswamy
 Vijayalakshmi D. Duraiswamy, Reg. 31,505

Attorney or Agent of Record
 Assignee of complete interest
 Filed under 37 CFR 1.34(a)

CUSTOMER NUMBER 020991
 HUGHES ELECTRONICS CORPORATION
 Patent Docket Administration
 Bldg. 001, M/S A109
 PO Box 956
 El Segundo, CA 90245-0956
 Telephone: (310) 662-9919
 09-506 (7/98)

CUSTOMER NO.: 020991

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
APPLICATION TRANSMITTAL LETTER FOR
NONPROVISIONAL PATENT APPLICATION
Under 37 C.F.R. 1.53(b)

Certification under 37 CFR 1.10 (if applicable) -

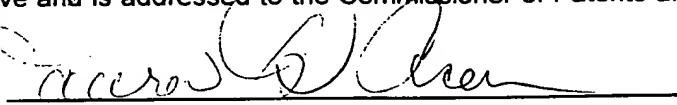
EM064975549US
 EXPRESS MAIL mailing number

February 2, 2000
 Date of Deposit

1C5310496889
 U.S. PTO
 02/02/00

I hereby certify that this application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Laura P. Aceves
 (Type or printed name of person mailing application)


 (Signature of person mailing application)

Assistant Commissioner for Patents
 Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the patent application, including 4 sheet(s) of formal drawings, of inventor(s):
Louis Raymond Falce and John Robert Beattie

for: **ION THRUSTER HAVING A HOLLOW CATHODE ASSEMBLY WITH AN ENCAPSULATED HEATER, AND ITS FABRICATION**

The filing fee for this application is calculated below:

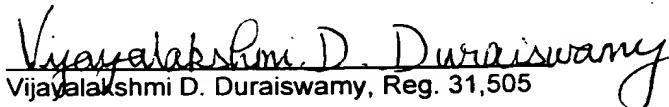
	CLAIMS AS FILED			
	NUMBER FILED	NUMBER EXTRA	RATE	
For:				\$690.00
Basic Fee				\$690.00
Total Claims	17	-20=	0 x \$ 18.00	\$.00
Independent Claims	2	- 3 =	0 x \$ 78.00	\$.00
Multiple Dependent Claims			+ \$260.00	\$.00
TOTAL FILING FEE :				\$690.00

Please charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California, in the amount of **\$690.00**. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to that account.

The Commissioner is further hereby authorized to charge to said above Deposit Account No. 50-0383, pursuant to 37 CFR 1.25(b), any fees whatsoever which may properly become due or payable, as set forth in 37 CFR 1.16 to 1.17 inclusive, for the entire pendency of this application without specific additional authorization.

**Please associate this application with the Hughes Electronics Corporation Customer Number 020991.
 This form is submitted in triplicate.**

HUGHES ELECTRONICS CORPORATION


 Vijayalakshmi D. Duraiswamy, Reg. 31,505

Attorney or Agent of Record
 Assignee of complete interest
 Filed under 37 CFR 1.34(a)

CUSTOMER NUMBER 020991
 HUGHES ELECTRONICS CORPORATION
 Patent Docket Administration
 Bldg. 001, M/S A109
 PO Box 956
 El Segundo, CA 90245-0956
 Telephone: (310) 662-9919
 09-506 (7/98)